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- (75) Inventors/Applicants (*for US only*): **WOODRUFF, Trent, Martin** [AU/AU]; 19 Martense Street, Wishart, BRISBANE, Queensland 4122 (AU). **TAYLOR, Steven** [AU/AU]; University of Queensland, BRISBANE, Queensland 4072 (AU).
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(54) Title: TREATMENT OF INFLAMMATORY BOWEL DISEASE


(57) **Abstract:** This invention relates to methods of treatment of inflammatory bowel disease, and especially to treatment of this condition with cyclic peptidic and peptidomimetic compounds which have the ability to modulate the activity of G protein-coupled receptors. The compounds preferably act as antagonists of the C5a receptor, and are active against C5a receptors on polymorphonuclear leukocytes and macrophages. Particularly preferred compounds for use in the methods of the invention are disclosed.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER												
Int. Cl. ⁷ : A61K 38/08, 38/12, A61P 29/00, 1/00												
According to International Patent Classification (IPC) or to both national classification and IPC												
B. FIELDS SEARCHED												
Minimum documentation searched (classification system followed by classification symbols)												
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI, MEDLINE; keywords- IBD, Inflammatory Bowel Disease, GPCR, G-Protein Coupled Receptor, c5a, c5aR, PMX53												
C. DOCUMENTS CONSIDERED TO BE RELEVANT												
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
Y	WO 1999/00406 A (The University of Queensland) 7 January 1999 (07.01.99). See whole documents.	1-25										
Y	WO 1998/45309 A (Astra Pharmaceuticals LTD) 15 October 1998 (15.10.98). Page 14 lines 13-21.	1-25										
Y	Zhongli G, et al. "Recent Advances in Neurokinin Receptor Antagonists" Current Medicinal Chemistry, 1999, 6, 375-388.	1-25										
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
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Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929		Authorized officer  G.R.PETERS Telephone No : (02) 6283 2184										

INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Dinareello, C. "Dissociation of Transcription from Translation of Human IL-1 β : Induction of Steady State mRNA by Adherence or Recombinant C5a in the absence of Translation" Proceedings of the Society for Experimental Biology and Medicine. 1992, VOL 200, pp 228-232.	1-25

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2003/001365

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
WO	99/00406	AU	80926/98	EP	1017713
WO	98/45309	AU	69354/98	EP	0973789
				US	5985849
END OF ANNEX					